

Apostle Islands National Lakeshore

Resource Brief



Sandscape Restoration Projects Funded by the F&WS Coastal Program

General Notes:

- Need for restoration determined through long-term monitoring
- All native plant material gathered within the park
- Propagation primarily by NRCS Rose Lake Plants Materials Center; also Wildflower Woods
- Assistance from Northland College students and volunteers

Oak Island Sandscape (1.6 acres)

- 2001 - Installed floating boardwalks; research plots and gathering of plant materials
- 2002 – Planted over 3,200 plants; 15 species
- High survival of beach grass (*Ammophila breviligulata*), hair grass (*Deschampsia flexuosa*), blueberry (*Vaccinium angustifolium*), Pennsylvania sedge (*Carex pensylvanica*), and wild rose (*Rosa blanda*)
- Supplemental planting in subsequent years

Oak Island sandscape – 2002



Oak Island sandscape 2010



South Twin Sandscape (2.8 acres)

- Historically had cabins; visitor center
- Currently four campsites are adjacent to sandscape
- 2005 – planted over 3,600 plants; 19 species
- 2006 – additional 1,600 plants; 2009 – additional 500 hairgrass
- Very high survival of beach grass, 3-toothed cinquefoil (*Potentilla tridentate*), scouring rush (*Equisetum hyemale*), hairgrass, common goldenrod (*Solidago canadensis*) and common milkweed (*Asclepias syriaca*)

S. Twin Island sandscape – 2005



S. Twin Island sandscape - 2010



Raspberry Island Sandscape (1 acre)

- Had two campsites that were removed
- Floating boardwalk previously installed
- Very popular day use area
- 2005 - planted over 850 plants
- 2006 - additional 760 plants; 2009 - additional 1,300 plants

Raspberry Island sandscape – 2005



Raspberry Island sandscape - 2010



Long Island – near light station (1 acre)

- Historical light station; high visitor use
- Installed floating boardwalk; had to be relocated in 2011 due to dynamic changes to dune edge
- 2009 - 1,600 hairgrass, beach grass and Pennsylvania sedge planted
- 2010 - additional 700 hairgrass, beach grass and beach pea (*Lathyrus japonicas*) planted

Long Island restoration – 2009



Long Island restoration – 2011



Cat Island sandscape (1.5 acres)

- Popular day and overnight use area; placement of campsite and outhouse causing social trails
- 2008 - campsite and outhouse relocated; floating boardwalk installed
- 2009 - planted 4,000 plants; 7 species
- 2010 - additional 1,200 hairgrass and beach grass planted
- 2010-2011 - bare ground decreased; vegetative litter increased; non-native species decreased

Cat Island sandscape – 2009



Cat Island sandscape – 2011



Stockton Island-Julian Bay sandscape (8 acres)

- Very large dune, pine savannah, wetland complex
- High numbers of informal trails
- 2010 – 600' of boardwalk installed
- 2011 – planted more than 3,500 wormwood (*Artemisia campestris*), hairgrass, and beach grass

Stockton Island, Julian Bay – May 17, 2011



Stockton Julian Bay – May 18, 2011

